

Title (en)

INTEGRATED THREE-DIMENSIONAL MAGNETIC SENSING DEVICE AND FABRICATION METHOD

Title (de)

INTEGRIERTE DREIDIMENSIONALE MAGNETSENSORVORRICHTUNG UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

DISPOSITIF INTEGRE DE DETECTION MAGNETIQUE TRIDIMENSIONNELLE ET SON PROCEDE DE FABRICATION

Publication

EP 1751569 A2 20070214 (EN)

Application

EP 05775301 A 20050602

Priority

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- US 86074404 A 20040603

Abstract (en)

[origin: US2005270020A1] An integrated three-dimensional magnetic or any field sensing device and a method to fabricate an integrated three-dimensional magnetic sensing device is presented. An integrated three-dimensional magnetic sensing device comprises an apparatus that defines at least a first surface area and at least one sloped surface which is sloped with respect to the first surface area. Two magnetic sensing units could be arranged on the first surface area to provide first and second orthogonal sensing directions, and a third magnetic sensing unit could be arranged on the at least one sloped surface to provide sensing in at least a third sensing direction which is orthogonal to the first and second orthogonal sensing directions. Bias could be applied to the third magnetic sensing unit to cancel a component of the magnetic field sensed by the third magnetic sensing unit so that the third magnetic sensor unit only provides sensing in the third direction.

IPC 8 full level

G01R 33/02 (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2006001978A2

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